

FRIEDMAN & BRUYA, INC.
ENVIRONMENTAL CHEMISTS

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TRANSMITTAL

DATE: 1/14/97
TO: Gerry Thompson
COMPANY: Alaskan Copper PROJECT ID: _____
FAX #: 382-7335 PHONE #: _____
FROM: Brad Benson

We are sending you the following:

# Pages (including cover sheet)	Description
<u>4</u>	<u>Report</u>

These are transmitted as indicated:

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☐ As requested ☐ As noted ☐ Other _____

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FRIEDMAN & BRUYA, INC./FORMS/TRANSMIT

Rev. 09/12/96

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January 9, 1997

**Gerry Thompson, Project Manager
Alaskan Copper Works
628 South Hanford
Seattle, WA 98134**

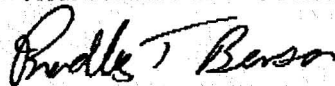
Dear Mr. Thompson:

Included are the results from the testing of material submitted on December 31, 1996 from your Acid Samples, PO #M55646 project.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



For
**Kurt Johnson
Chemist**

**keh
Enclosures
ACU0109R.DOC**

FRIEDMAN & BRUYA, INC.**ENVIRONMENTAL CHEMISTS**

Date of Report: January 9, 1997
Date Received: December 31, 1996
Project: Acid Samples, PO #M55646
Date Samples Extracted: January 6, 1997
Date Extracts Analyzed: January 7, 1997

**RESULTS FROM THE ANALYSIS OF PROCESS WATER SAMPLES
FOR TOTAL METALS BY
INDUCTIVELY COUPLED PLASMA (ICP)
(METHOD 6010)**

**Samples Processed Using Method 3005A
Results Reported as µg/L (ppb)**

<u>Sample ID</u>	<u>M55646 A Small Tank</u>	<u>M55646 B Large</u>	<u>Method Blank</u>
Analyte:			
Arsenic	20	24	<5
Cadmium	<1	<1	<1
Chromium	6,400	8,200	<1
Lead	14	6.2	<1
Silver	<1	<1	<1
Copper	6,500	810	<1
Nickel	9,400	7,300	<1
Zinc	7.6	7.1	<1
Iron	38,000	42,000	<10

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: January 9, 1997
 Date Received: December 31, 1996
 Project: Acid Samples, PO #M55646

**QUALITY ASSURANCE RESULTS
 FOR TOTAL METALS BY
 INDUCTIVELY COUPLED PLASMA (ICP)
 (METHOD 6010)**

Laboratory Code: 74681 (Duplicate)

Analyte:	Reporting Units	Sample Result	Duplicate Result	Relative Percent Difference	Acceptance Criteria
Arsenic	mg/L(ppm)	24	23	4	0-20
Cadmium	mg/L(ppm)	<1	<1	nm	0-20
Chromium	mg/L(ppm)	8,200	7,500	9	0-20
Lead	mg/L(ppm)	6.2	5.3	16	0-20
Silver	mg/L(ppm)	<1	<1	nm	0-20
Copper	mg/L(ppm)	810	750	8	0-20
Nickel	mg/L(ppm)	7,300	6,700	9	0-20
Zinc	mg/L(ppm)	7.1	7.1	0	0-20
Iron	mg/L(ppm)	42,000	40,000	5	0-20

Laboratory Code: Spike Blank

Analyte:	Reporting Units	Spike Level	% Recovery		Acceptance Criteria	Relative Percent Difference
			MS	MSD		
Arsenic	mg/L (ppm)	10	96	95	80-120	1
Cadmium	mg/L (ppm)	5	103	103	80-120	0
Chromium	mg/L (ppm)	5	95	95	80-120	0
Lead	mg/L (ppm)	10	96	96	80-120	0
Silver	mg/L (ppm)	2	84	86	50-150	2
Copper	mg/L (ppm)	5	96	97	80-120	1
Nickel	mg/L (ppm)	10	95	96	80-120	1
Zinc	mg/L (ppm)	5	95	96	80-120	1
Iron	mg/L (ppm)	10	104	104	80-120	0

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.